

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532414

Luminaire Tested: **GALN-SA7D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45292 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

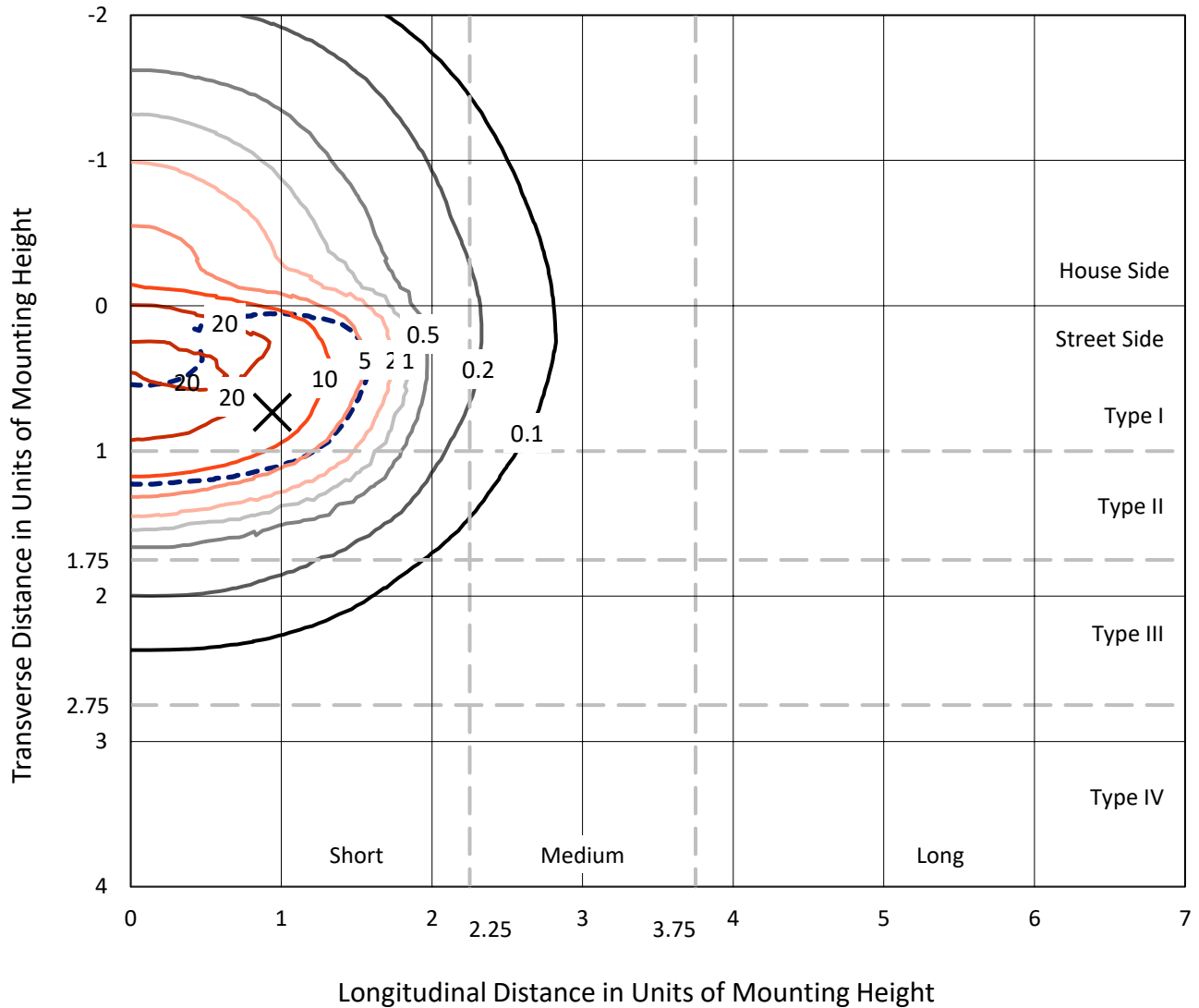
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

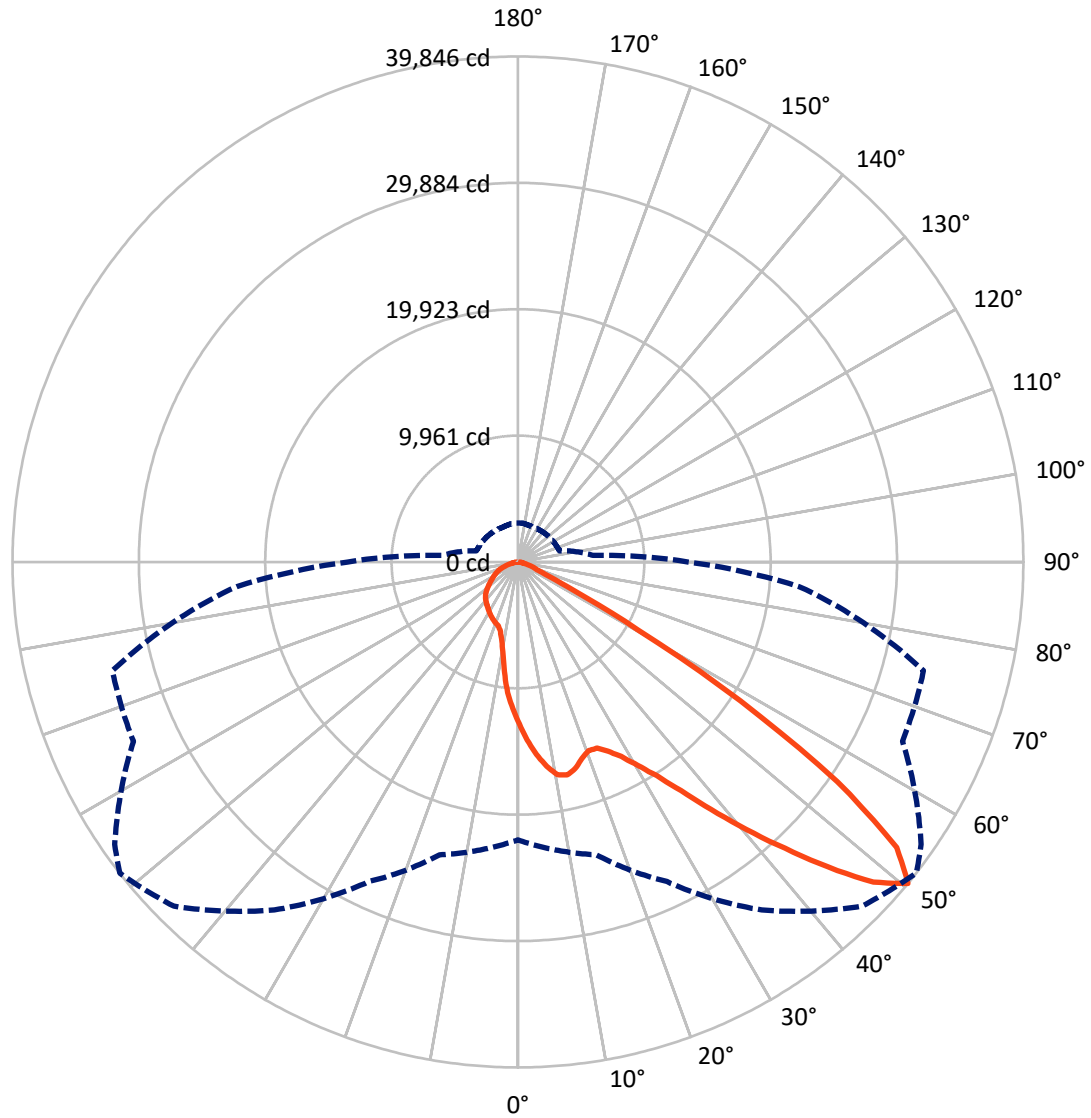
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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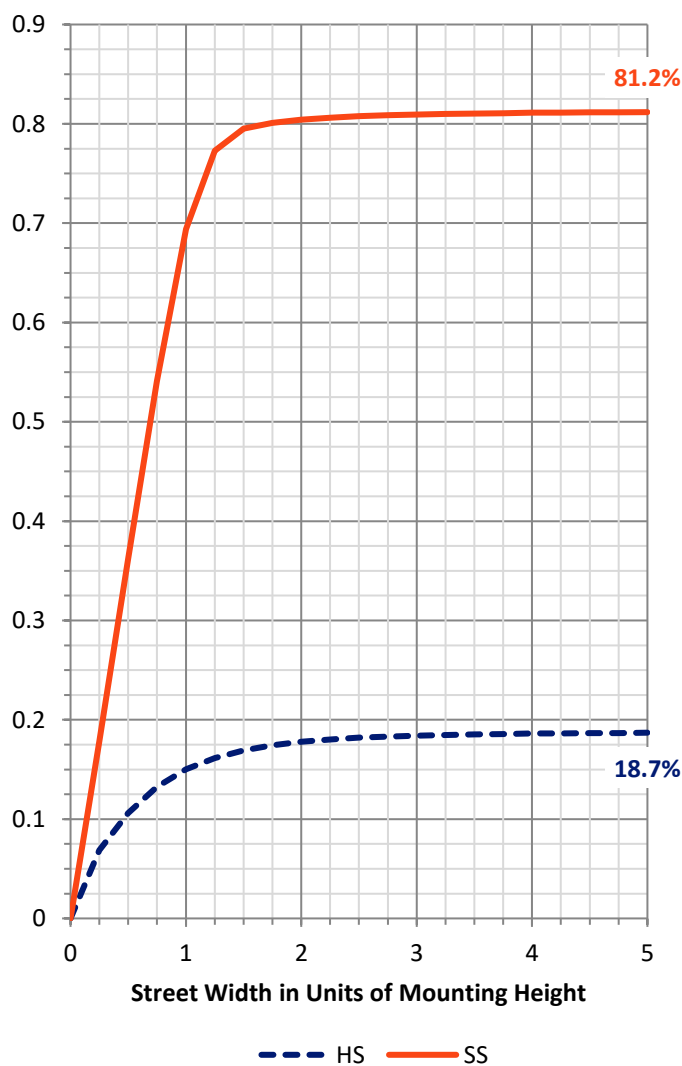
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8513.8	0.0	8513.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	36778.2	0.0	36778.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	45292.0	0.0	45292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1176.7	2.6
10°-20°	3153.9	7.0
20°-30°	5312.7	11.7
30°-40°	8915.2	19.7
40°-50°	13638.0	30.1
50°-60°	9943.2	22.0
60°-70°	2212.9	4.9
70°-80°	798.1	1.8
80°-90°	141.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45292.0	100.0
0°-180°	45292.0	100.0

**Coefficient of Utilization**



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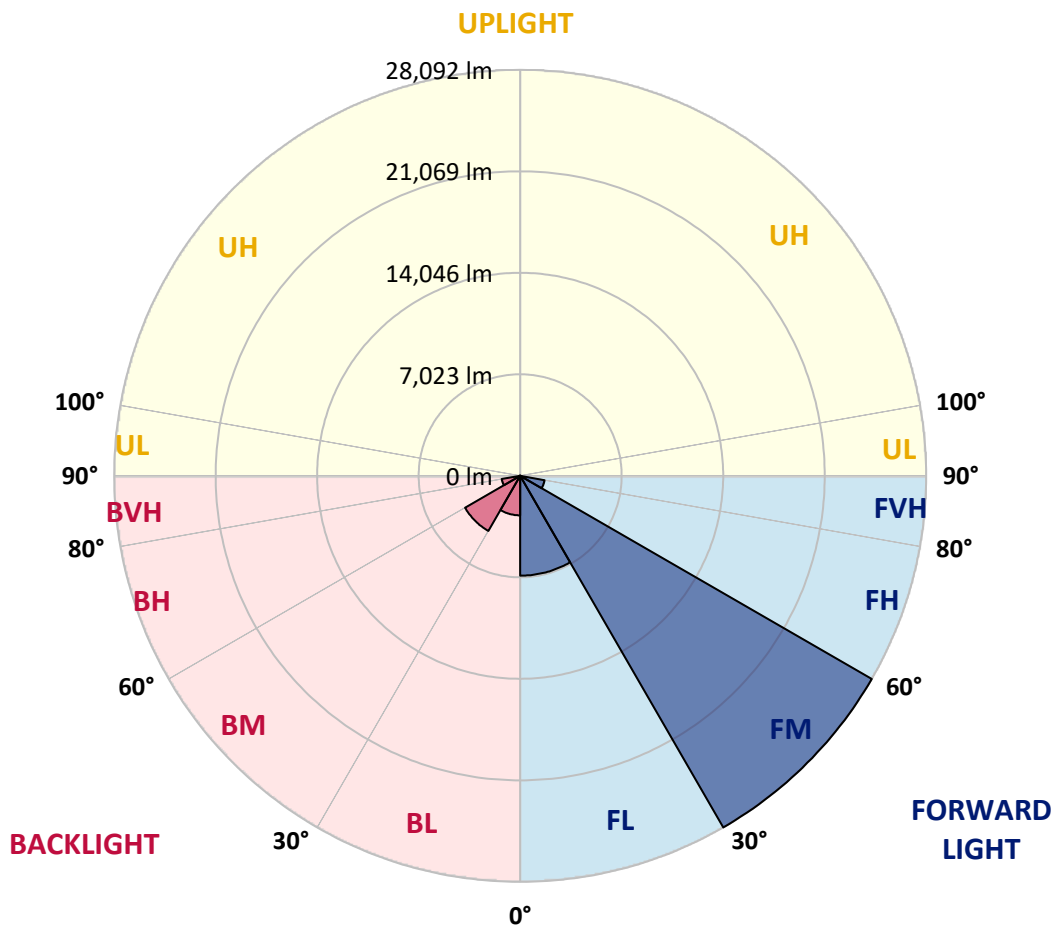
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6908.6	15.3			
FM (30°-60°)	28092.4	62.0			
FH (60°-80°)	1713.9	3.8			G1/1800
FVH (80°-90°)	63.3	0.1			G1/100
BL (0°-30°)	2734.8	6.0	B4/5000		
BM (30°-60°)	4403.9	9.7	B3/5000		
BH (60°-80°)	1297.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	78.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1
2.5°	15032.3	14743.0	14775.7	14568.3	14344.5	14279.0	14049.8	13831.4	13667.7	13318.4	12996.3
5°	16429.6	16342.3	16211.3	16047.5	15878.3	15463.5	15228.8	14955.9	14355.4	13815.1	13280.1
7.5°	16631.6	16615.2	16686.2	16686.2	16746.2	16587.9	16254.9	16063.9	15425.3	14546.5	13553.1
10°	15212.4	15261.5	15605.4	16053.0	16675.2	17106.4	17051.9	17002.7	16304.1	15103.2	13875.1
12.5°	14082.5	13973.4	14175.3	14557.4	15490.8	16533.3	17237.4	17242.9	17062.8	15992.9	14109.8
15°	13443.9	13520.3	13574.9	13755.0	14459.2	15665.4	16904.5	17270.2	18061.7	16620.7	14481.0
17.5°	13853.3	13596.7	13585.8	13629.5	13989.7	14895.8	16287.7	16915.4	18607.5	17428.5	14939.5
20°	14388.2	14382.7	14229.9	14175.3	14169.9	14977.7	15883.8	16735.3	18896.8	18476.5	15403.4
22.5°	15327.0	15327.0	15075.9	14955.9	14699.3	15359.8	15938.4	16516.9	19377.1	19197.0	15627.2
25°	16899.0	16642.5	16211.3	15916.5	15769.2	16003.9	16516.9	17035.5	19797.4	19961.2	16091.2
27.5°	18350.9	17947.0	17734.2	17226.5	17030.0	16893.6	17363.0	17887.0	20288.7	21151.1	16342.3
30°	19999.4	19928.4	19546.3	18891.3	18405.5	18154.4	18585.7	19104.2	21189.3	22368.3	16920.9
32.5°	22946.9	22302.8	21784.2	20981.9	20190.4	19655.5	20081.2	20425.1	22684.9	23640.1	17554.0
35°	26129.1	25921.7	25026.5	23580.0	22368.3	21888.0	22139.0	22395.6	24426.1	25583.3	18618.4
37.5°	29256.7	28972.9	28236.0	27018.8	25545.0	24568.0	24748.1	25048.3	26380.2	28203.3	19917.5
40°	31505.6	31156.2	30785.1	30604.9	29142.1	27804.8	27701.1	27777.5	29022.0	30659.5	21358.5
42.5°	31669.3	32100.5	32215.1	32941.1	32597.2	31500.1	30861.5	30877.8	31543.8	33088.5	22815.9
45°	31325.4	30927.0	31773.0	33754.4	34889.7	35402.8	34327.5	34191.1	33104.8	34496.7	23541.8
47.5°	27717.5	27826.6	29256.7	32389.8	35670.3	37962.8	37711.7	37258.6	33940.0	34447.6	23427.2
50°	21909.8	22570.2	23896.6	27799.3	33486.9	38366.7	39845.9	38797.9	33443.3	33093.9	22259.1
52.5°	14590.2	14863.1	15736.4	20774.5	26926.0	34294.8	37389.6	37629.8	32984.8	31320.0	20779.9
55°	6495.4	6473.6	7701.7	10851.2	16893.6	26096.3	30550.3	32013.2	31221.7	29513.3	19338.9
57.5°	2751.0	2843.8	3346.0	4688.7	8307.6	15747.3	20698.0	21980.7	24011.3	24235.0	14835.8
60°	1861.3	1872.2	2008.7	2347.1	3477.0	7396.1	10856.6	12395.9	13847.8	13749.6	7870.9
62.5°	1462.8	1501.0	1604.8	1741.2	2063.3	3356.9	4857.9	5714.9	5807.7	4885.2	2985.7
65°	1250.0	1255.4	1359.1	1473.8	1615.7	1954.1	2341.6	2385.3	2412.6	2325.3	2194.3
67.5°	1031.6	1042.5	1124.4	1255.4	1386.4	1495.6	1604.8	1659.3	1784.9	2030.5	1997.8
70°	818.8	835.1	906.1	1015.3	1135.3	1200.8	1337.3	1386.4	1501.0	1692.1	1768.5
72.5°	622.3	627.7	687.8	764.2	873.3	938.8	1053.5	1108.0	1184.5	1348.2	1419.2
75°	447.6	464.0	507.6	545.8	562.2	605.9	715.0	775.1	884.3	955.2	960.7
77.5°	234.7	245.6	256.5	256.5	311.1	393.0	464.0	496.7	573.1	627.7	600.4
80°	92.8	98.3	125.5	169.2	218.3	283.8	333.0	349.3	414.8	447.6	464.0
82.5°	54.6	60.0	81.9	120.1	158.3	202.0	240.2	256.5	300.2	338.4	349.3
85°	27.3	32.8	49.1	76.4	103.7	125.5	120.1	114.6	114.6	109.2	114.6
87.5°	10.9	10.9	16.4	16.4	16.4	21.8	27.3	27.3	27.3	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1	12767.1
2.5°	12783.4	12565.1	12363.1	11992.0	11588.1	11473.4	11004.0	10834.8	10714.7	10572.8	10529.1
5°	12848.9	12559.6	11910.1	11162.3	10567.4	9803.2	9301.0	8760.6	8367.6	8269.4	8242.1
7.5°	12985.4	12488.7	11369.7	10239.9	9022.6	7985.6	7194.1	6768.3	6391.7	6369.9	6331.7
10°	13138.2	12275.8	10780.2	9006.3	7450.6	6490.0	6015.1	5829.5	5736.7	5714.9	5704.0
12.5°	13263.8	12232.1	10119.8	7805.4	6337.1	5758.6	5616.6	5600.3	5638.5	5649.4	5671.2
15°	13318.4	12057.5	9322.8	6730.1	5643.9	5431.1	5491.1	5556.6	5583.9	5654.8	5600.3
17.5°	13422.1	11833.7	8340.3	5878.6	5256.4	5294.6	5398.3	5474.7	5518.4	5567.5	5496.6
20°	13476.6	11631.7	7417.9	5371.0	5119.9	5190.9	5332.8	5392.8	5447.4	5469.3	5387.4
22.5°	13427.5	11216.9	6604.6	4961.6	4988.9	5081.7	5207.3	5272.8	5240.0	5152.7	5103.6
25°	13296.5	10632.9	5758.6	4699.6	4803.3	4967.1	5065.3	5016.2	4956.2	4907.1	4890.7
27.5°	13291.1	9917.8	5147.2	4459.5	4645.0	4868.8	4836.1	4792.4	4819.7	4781.5	4737.8
30°	13318.4	9224.6	4645.0	4323.0	4530.4	4639.6	4677.8	4634.1	4666.9	4595.9	4617.8
32.5°	13176.4	8547.8	4317.5	4164.7	4394.0	4388.5	4514.0	4546.8	4470.4	4323.0	4344.8
35°	13236.5	8001.9	4039.2	4093.8	4241.1	4241.1	4339.4	4301.2	4099.2	4011.9	4033.7
37.5°	13651.3	7467.0	3902.7	3995.5	4093.8	4137.4	4104.7	3940.9	3891.8	3891.8	3902.7
40°	14044.3	7008.5	3820.8	3973.7	3957.3	3984.6	3744.4	3760.8	3760.8	3766.3	3739.0
42.5°	14393.7	6697.4	3755.3	3842.7	3870.0	3728.0	3580.7	3564.3	3602.5	3597.0	3575.2
45°	14519.2	6440.8	3662.5	3695.3	3717.1	3482.4	3411.5	3378.7	3422.4	3438.8	3460.6
47.5°	14038.9	6228.0	3558.8	3493.3	3449.7	3296.8	3204.0	3144.0	3198.6	3291.4	3313.2
50°	13422.1	5949.6	3395.1	3269.5	3176.8	3111.3	3045.8	2985.7	3023.9	3089.4	3073.0
52.5°	12510.5	5512.9	3187.7	3056.7	2898.4	2914.8	2854.7	2822.0	2843.8	2843.8	2827.4
55°	11211.4	4530.4	2838.3	2745.5	2614.5	2658.2	2669.1	2625.5	2581.8	2620.0	2587.3
57.5°	7652.6	3198.6	2532.7	2532.7	2401.7	2461.7	2456.3	2352.5	2248.8	2259.8	2237.9
60°	4426.7	2549.0	2336.2	2314.3	2177.9	2227.0	2237.9	2167.0	2008.7	2019.6	1997.8
62.5°	2516.3	2177.9	2041.4	2008.7	1981.4	2025.0	2025.0	1932.3	1795.8	1806.7	1784.9
65°	2139.7	2019.6	1823.1	1817.6	1806.7	1817.6	1774.0	1675.7	1555.6	1506.5	1512.0
67.5°	1943.2	1866.8	1675.7	1626.6	1593.8	1588.4	1506.5	1413.7	1359.1	1315.5	1310.0
70°	1703.0	1643.0	1501.0	1435.5	1402.8	1326.4	1244.5	1184.5	1108.0	1086.2	1108.0
72.5°	1348.2	1342.8	1288.2	1217.2	1146.3	1086.2	1015.3	933.4	862.4	846.0	807.8
75°	933.4	944.3	955.2	944.3	884.3	807.8	726.0	660.5	573.1	524.0	513.1
77.5°	611.3	627.7	644.1	622.3	584.0	513.1	458.5	376.6	311.1	272.9	267.5
80°	447.6	469.4	480.3	464.0	420.3	365.7	305.7	240.2	191.0	158.3	158.3
82.5°	343.9	365.7	376.6	349.3	305.7	262.0	218.3	169.2	131.0	103.7	98.3
85°	120.1	114.6	136.5	141.9	169.2	158.3	131.0	98.3	76.4	54.6	49.1
87.5°	32.8	32.8	38.2	38.2	32.8	27.3	27.3	27.3	21.8	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)